

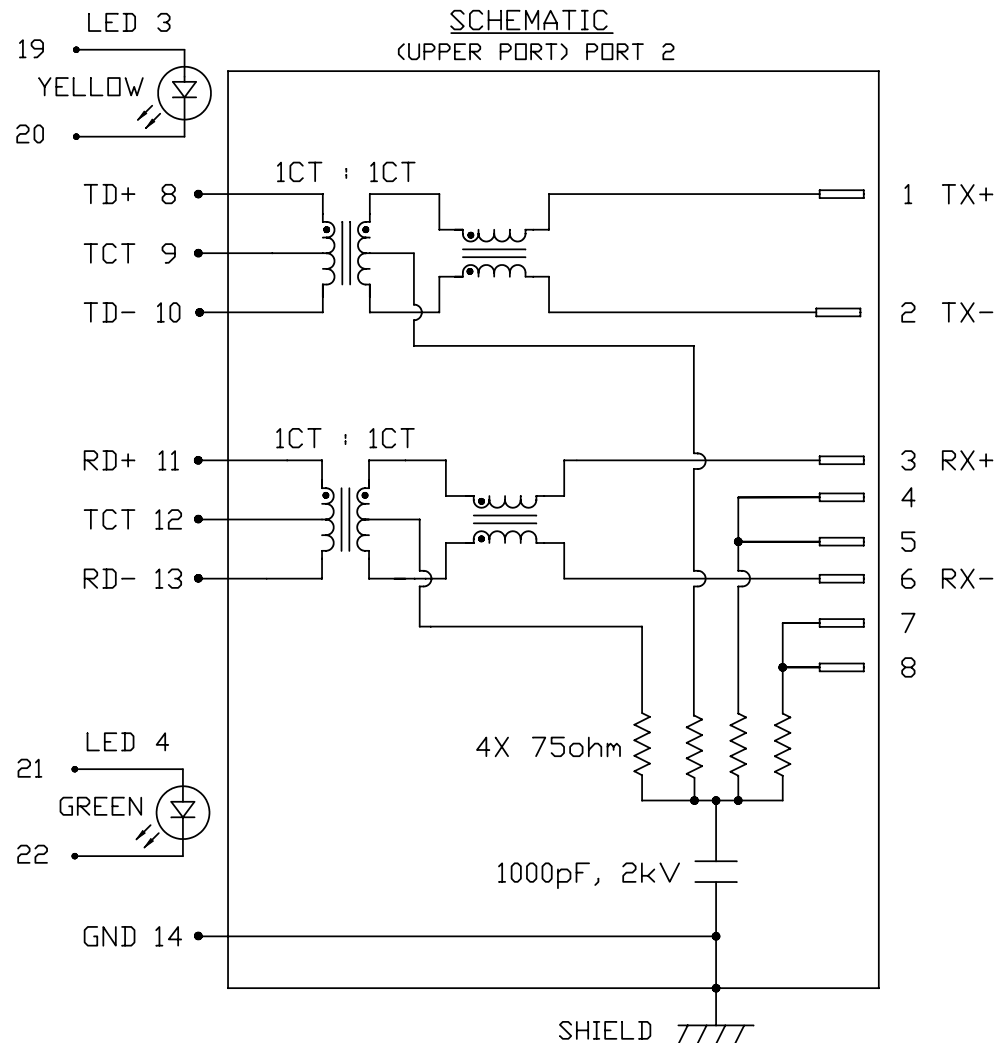
THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.



LED 3 POLARITY			LED 4 POLARITY		
PIN 19	PIN 20	COLOR	PIN 21	PIN 22	COLOR
+	-	YELLOW	+	-	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

<p> <b>URNS RATIO</b>            TX 1CT : 1 ±3%            RX 1CT : 1 ±3%  <b>QCL @ 100kHz/100mVRMS</b>            8mA DC BIAS 350µH MIN.  <b>INS. LOSS</b>            1MHz TO 100MHz -1.0 dB MAX  <b>RET. LOSS (MIN)</b>            1MHz-30MHz -18 dB            30MHz-60MHz -18+20LOG(F/30MHz) dB            60MHz-80MHz -12 dB  <b>CROSS TALK (TX - RX)</b>            500kHz-1MHz -70 dB MIN            10 MHz -50 dB MIN            30 MHz -45 dB MIN            50 MHz -40 dB MIN            100 MHz -35 dB MIN  <b>CM TO CM REJ</b>            100kHz-1MHz -70 dB MIN            10 MHz -47 dB MIN            30 MHz -42 dB MIN            60 MHz -37 dB MIN            100 MHz -30 dB MIN  <b>CM TO DM REJ</b>            100kHz-1MHz -70 dB MIN            10 MHz -60 dB MIN            30 MHz -50 dB MIN            60 MHz -45 dB MIN            100 MHz -40 dB MIN  <b>HIPOT (Isolation Voltage):</b>            1500 Vrms  <b>LED 3 (Super bright)</b>            VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.            LD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.  <b>LED 4 (Super bright)</b>            VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.            LD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.         </p>	
--	--



<b>ORIGINATED BY</b>	<b>DATE</b>
CHOW WANGCHUNG	09-07-09
<b>DRAWN BY</b>	<b>DATE</b>
LEE WEIDE	09-07-09

<b>TITLE</b>
2X1 MagJack® (with LED) PATENTED

<b>PART NO. / DRAWING NO.</b>
0845-2D1A-H5
<b>FILE NAME</b>
0845-2D1A-H5_A.DWG

<b>STANDARD DIM. TOL. IN INCH</b>
.X
.XX
.XXX

<b>[ ] METRIC DIM. AS REFERENCE</b>
UNIT : INCH [mm]
SCALE : N/A
REV. : A
SIZE : A4
PAGE : 2



THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

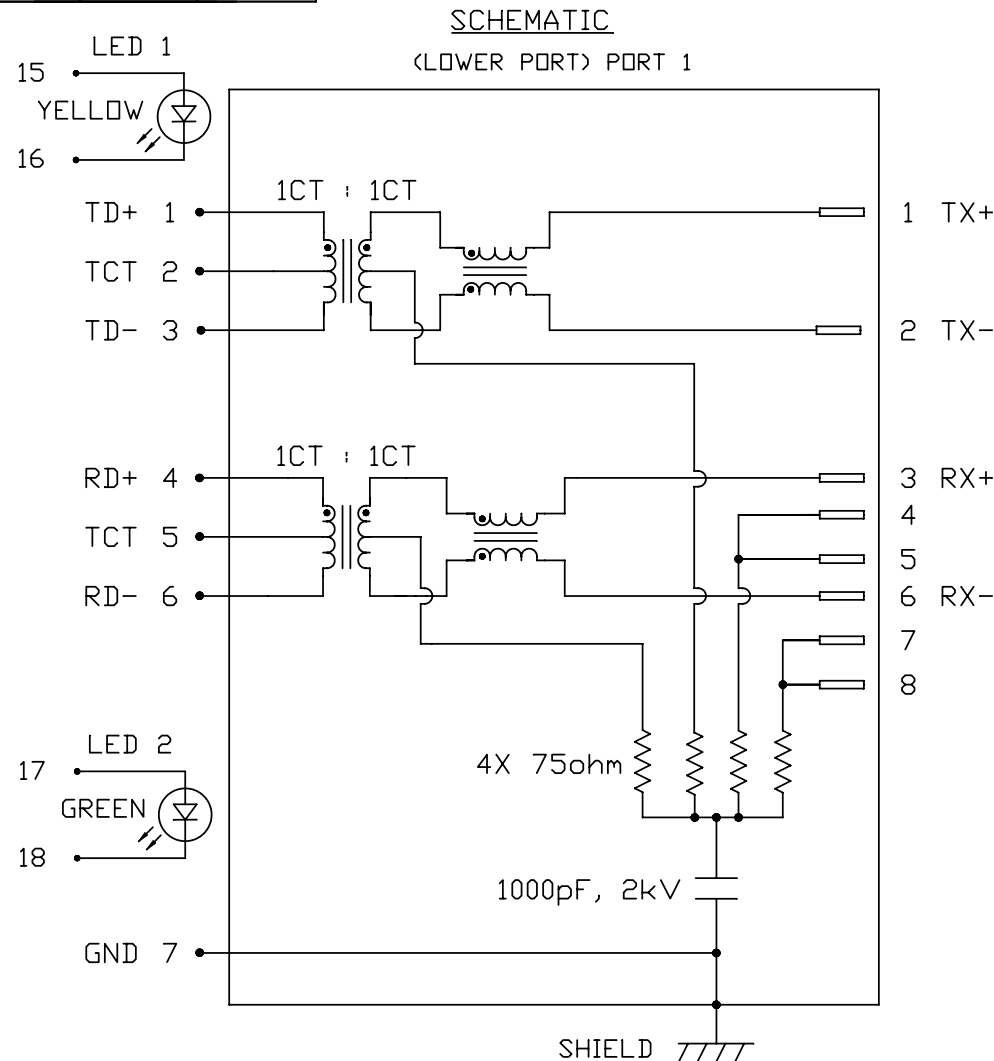
RoHS  
2002/95/EC



LED 1 POLARITY			LED 2 POLARITY		
PIN 15	PIN 16	COLOR	PIN 17	PIN 18	COLOR
+	-	YELLOW	+	-	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

<p>TRANSFORMER</p> <p>URNS RATIO</p> <p>TX 1CT : 1 ±3%</p> <p>RX 1CT : 1 ±3%</p> <p>DCL @ 100kHz/100mVRMS 8mA DC BIAS 350µH MIN.</p> <p>INS. LOSS 1MHz TO 100MHz -1.0 dB MAX</p> <p>RET. LOSS (MIN) 1MHz-30MHz -18 dB</p> <p>30MHz-60MHz -18+20LOG(F/30MHz) dB</p> <p>60MHz-80MHz -12 dB</p> <p>CROSS TALK (TX - RX) 500kHz-1MHz -70 dB MIN</p> <p>10 MHz -50 dB MIN</p> <p>30 MHz -45 dB MIN</p> <p>50 MHz -40 dB MIN</p> <p>100 MHz -35 dB MIN</p> <p>CM TO CM REJ 100kHz-1MHz -70 dB MIN</p> <p>10 MHz -47 dB MIN</p> <p>30 MHz -42 dB MIN</p> <p>60 MHz -37 dB MIN</p> <p>100 MHz -30 dB MIN</p> <p>CM TO DM REJ 100kHz-1MHz -70 dB MIN</p> <p>10 MHz -60 dB MIN</p> <p>30 MHz -50 dB MIN</p> <p>60 MHz -45 dB MIN</p> <p>100 MHz -40 dB MIN</p> <p>HIPOT (Isolation Voltage): 1500 Vrms</p> <p>LED 1 VF (FORWARD VOLTAGE) IF=20mA YELLOW 2.1V TYP.</p> <p>LD (DOMINANT WAVELENGTH) IF=20mA YELLOW 590nm TYP.</p> <p>LED 2 VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.</p> <p>LD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.</p>	
--	--

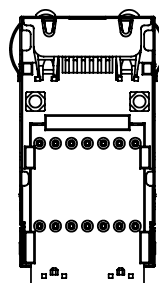
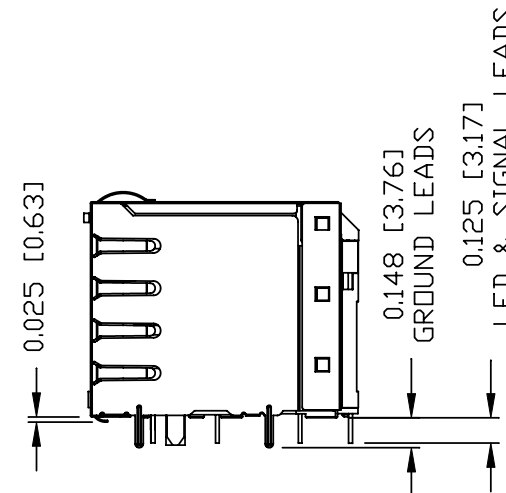
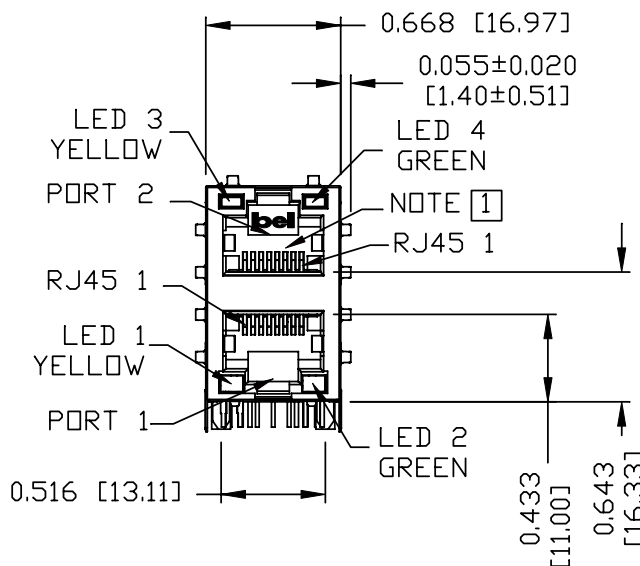
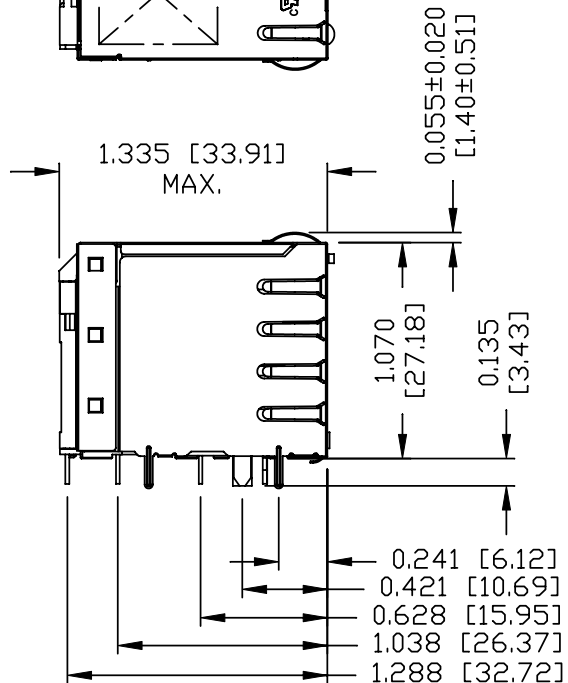
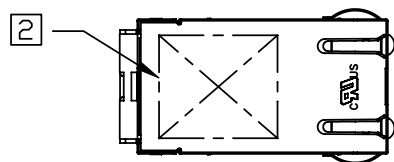


ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
CHOW WANGCHUNG	09-07-09	2X1 MagJack® (with LED) PATENTED	0845-2D1A-H5	.X	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
LEE WEIDE	09-07-09		0845-2D1A-H5_A.DWG	.XXX	PAGE : 3



THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS  
2002/95/EC



NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT  
 FLAMMABILITY RATING UL 94V-0  
 CONTACT PLATING: 50 MICRO-INCH HARD GOLD PLATING  
 OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.  
 METAL SHIELD: NICKEL PLATED COPPER ALLOY.  
 (ALL GROUND LEADS ARE SOLDER DIPPED)

1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.

UL USUL RECOGNIZED - FILE #E196366 AND E169987.

2. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, DATE CODE AND PATENTED.

3. RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.  
 4. THE PRODUCT IS PATENTED, THE PATENT NUMBER IS U.S. PAT. 5,736,910.

ORIGINATED BY LIU QIN	DATE 09-07-09	TITLE 2X1 MagJack® (with LED) PATENTED	PART NO. / DRAWING NO. 0845-2D1A-H5	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
DRAWN BY XIAN JIAXIN	DATE 09-07-09		FILE NAME 0845-2D1A-H5_A.DWG	.X .XX .XXX ±0.010	UNIT : INCH [mm] SCALE : N/A

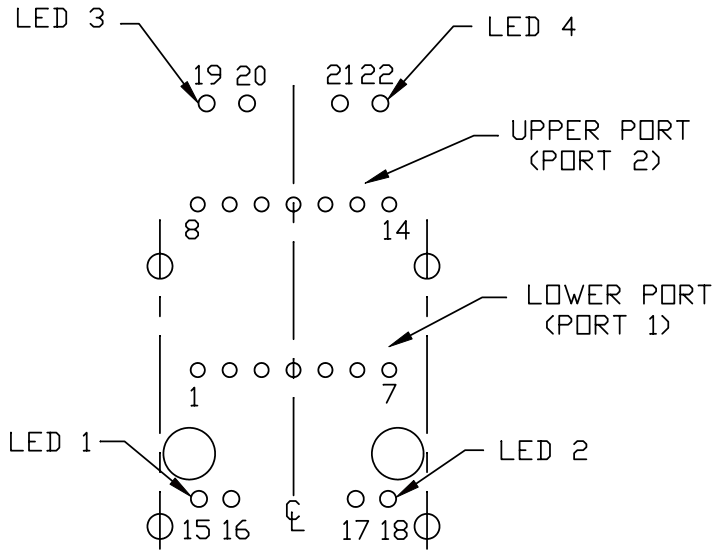


THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

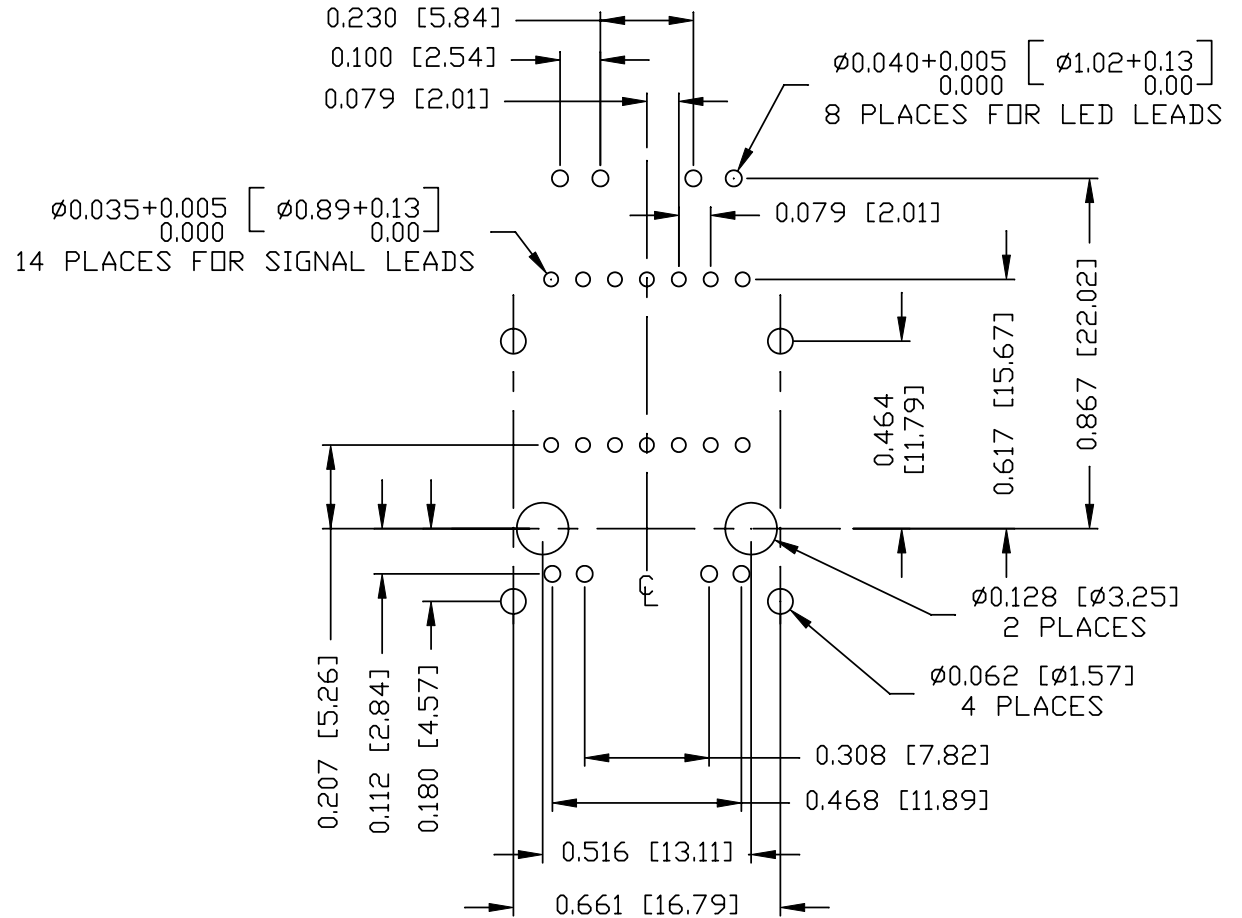
RoHS  
2002/95/EC



LED CONFIGURATION



PIN-OUT INFORMATION  
(COMPONENT SIDE VIEW)



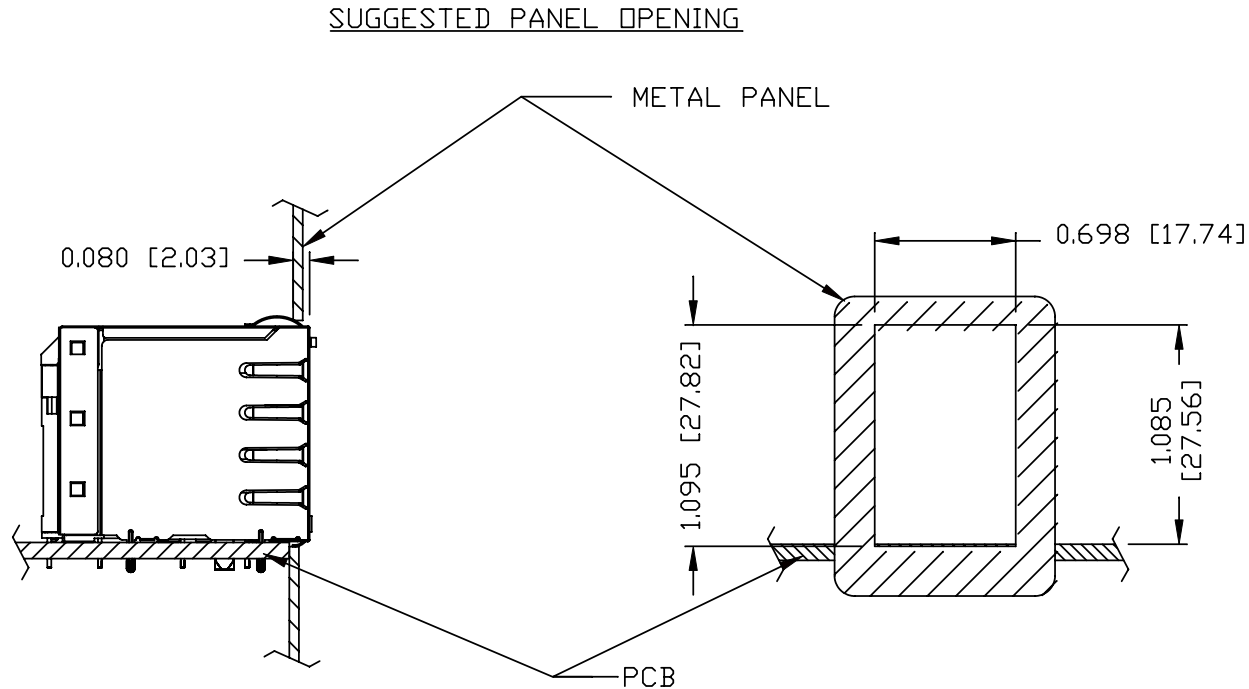
SUGGESTED FOOTPRINT  
(COMPONENT SIDE VIEW)

ORIGINATED BY LIU QIN	DATE 09-07-09	TITLE 2X1 MagJack® (with LED) PATENTED	PART NO. / DRAWING NO. 0845-2D1A-H5		STANDARD DIM. TOL. IN INCH		[ ] METRIC DIM. AS REFERENCE	
	DRAWN BY XIAN JIAXIN		DATE 09-07-09	FILE NAME 0845-2D1A-H5_A.DWG		.X .XX .XXX	±0.004	UNIT : INCH [mm] SCALE : N/A



THE INFORMATION CONTAINED HEREIN IS CONSIDERED "PROPRIETARY" TO BEL FUSE INC. AND SHALL NOT BE COPIED, REPRODUCED OR DISCLOSED WITHOUT THE WRITTEN APPROVAL OF BEL FUSE INC.

RoHS  
2002/95/EC



**NOTE:**

THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION. IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

**PACKING INFORMATION**

PACKING TRAY: 0200-9999-H5 (TOP)  
0200-9999-H6 (BOTTOM)

PACKING QUANTITY: 40 PCS FINISHED GOODS PER TRAY  
6 TRAYS (240 PCS FINISHED GOODS) PER CARTON BOX.

NOTE: CARDBOARD ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.  
(INCLUDE THE UPPERMOST AND LOWEREST TRAY)

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[ ] METRIC DIM. AS REFERENCE
LIU QIN	09-07-09	2X1 MagJack® (with LED) PATENTED	0845-2D1A-H5	.X	UNIT : INCH [mm] REV. : A
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
XIAN JIAXIN	09-07-09		0845-2D1A-H5_A.DWG	.XXX ±0.004	SCALE : N/A SIZE : A4 PAGE : 6

